



PATENT  
Docket No. 10799/13

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

INVENTORS : Catherine TAYLOR, et al.  
SERIAL NO. : 09/909,796  
FILED : July 23, 2001  
FOR : DNA ENCODING APOPTOSIS-INDUCED EUCARYOTIC  
INITIATION FACTOR-5A AND DEOXYHYPUSINE  
SYNTHASE AND A METHOD FOR CONTROLLING  
APOPTOSIS IN ANIMALS AND HUMANS

Box - **MISSING PARTS**  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**PRELIMINARY AMENDMENT ADDING ABSTRACT**

S I R:

Prior to examination of the above-identified application, please enter the following amendments.

**In the Specification:**

After page 119, please insert:

**--ABSTRACT OF THE INVENTION**

Genes encoding an apoptosis-induced eukaryotic initiation Factor-5A (eIF-5A) and an apoptosis-induced deoxyhypusine synthase (DHS), whose expressions are induced by the onset of apoptosis, are identified. The DHS gene and the eIF-5A gene, alone or in combination, as well as inhibitors of the DHS reaction, are used to modulate apoptosis in animals and humans. For example, modulation of apoptosis in cells of animals and humans is achieved by introduction of a gene or gene fragment encoding apoptosis-induced eIF-5A, apoptosis-induced DHS, or both into the animal or human cell in antisense orientation. --